



WSI
Wastewater Solutions, Inc.

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Corvallis, Oregon 97330
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LETTER AGREEMENT
2011 Operator Training

November 29, 2010

Mr. David Henderson
Utility Manager
West Lafayette Wastewater Treatment Plant
500 S. River Road
West Lafayette, IN 47906

Subject: **Wastewater Training 2011**

Dear Mr. Henderson:

Wastewater Solutions, Inc. is pleased to present this proposal for wastewater training. For convenience, this proposal is presented in a form that can be accepted and signed as an agreement between Wastewater Solutions, Inc. and the City of West Lafayette, Wastewater Treatment Plant.

SCOPE

The scope of services to be performed by Wastewater Solutions, Inc. under this letter agreement is:

Provide four training classes. Each class date shall consist of 3-5 contact hours and will be delivered in-house.

West Lafayette WWTP In-house Training 2011

1. Facility process optimization update / Discussion (2 hours)

A look at equipment and process optimization with a goal toward energy and labor reduction and/or treatment performance improvements. Each unit process operation will be discussed.

- Success to date
- Where we go from here
- Prioritization
- Role of each employee in the continuing optimization process
- New ideas?

2. Activated Sludge (6 hours)

Review of the activated sludge principles, process control, and troubleshooting.

- Respiration
- Basics of activated sludge operation and troubleshooting
- Nitrification and Denitrification
- Impact of hydraulic loading (high flow) on activated sludge
- Current state of West Lafayette's activated sludge Process

3. Selector Activated Sludge (4 hours)

Discussion of selector activated sludge for filament control, foam control, nitrogen removal, and phosphorus removal.

- What are selectors
- How do they work (microbiology)
- Types of selectors
- Should a selector be considered in the next secondary upgrade?

4. How would phosphorus limits impact plant performance (4 hours)

Plant currently required to monitor phosphorus in the effluent. Could a phosphorus limit be far behind?

- Bio- P removal basics
- Chemical P removal basics
- How would it effect operations and maintenance
- P design considerations

The training will be held in facilities provided West Lafayette WWTP. The WWTP will furnish a whiteboard and markers. Wastewater Solutions will provide up to 20 copies of the student manuals. WSI will apply to IDEM for CEU's for the workshop. The CEU's shall be of the "technical" category.

TRAINING DATES

The training will held in 2011. Specific training dates will be mutually agreed upon.

COST

Total lump sum compensation for the training project will be \$19,600. Compensation includes all preparation and travel time, onsite labor, student materials, and all other direct costs.

ACCEPTANCE

To accept this proposal, please sign and date two copies and return one copy to Wastewater Solutions, Inc. within thirty days. We look forward to the opportunity to perform the work for you.

Respectfully,

WASTEWATER SOLUTIONS, INC

CITY of WEST LAFAYETTE

Jon B. Musick

Printed Name _____

(E-signature: 11-1127)

Jon B. Musick
President

Title _____

Signature _____

Date _____

Wastewater Solutions, Inc.
EIN: 83-0351175